ANGELES MARIN BATANA

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EDUCATION

Ball State University — May 2025
B.S. Computer Science; B.S. Spanish; Minor in Sociology — Muncie, IN
GPA: 3.57/4.0
Concentrations: Data Analytics & Machine Learning; Language & Culture Studies

RESEARCH EXPERIENCE

Artificial Intelligence and Cybersecurity Research Assistant — Oct 2024 – Sept 2025
Ball State University, Computer Science Department — *Muncie, IN*

- Developed end-to-end Retrieval-Augmented Generation (RAG) pipeline for security requirements engineering; processed 162 CVEs achieving 9.3% direct relevance and 40.1% possible relevance using OpenAI API & FAISS.
- Curated 324k CVE entries, filtered to 2023–2024 using pandas to enable efficient top-k retrieval for threat mapping.
- Co-designed asset→threat→requirements generator using GAMMA-J corpus to produce actionable, model-driven security requirements.
- Conducted literature review on transformer-based models & RAG in cybersecurity, contributing to methodology of RE@Next! 2025 publication.

Big Data Analytics & Machine Learning Researcher (NSF REU) — May 2024 – Jul 2024
North Dakota State University — *Fargo, ND; Santiago, Chile*

- Parallelized Bat Algorithm variants using Apache Spark; implemented data-parallel and task-parallel strategies achieving strong speedups on 16–24 cores.
- Benchmarked performance across 10 dataset sizes and 7 core counts; analyzed scalability limits for HPC-based evolutionary algorithms.
- Presented findings at Universidad de Chile, highlighting performance tradeoffs in scalable ML optimization.

PUBLICATIONS & PRESENTATIONS

Peer-Reviewed Conference Paper
S. Malviya, A. Fonteles, A. Marin Batana, & A. Burch-DeWitt. "Recommending Security Requirements through Asset Identification and Threat Mapping." *RE@Next! (RE 2025 Papers Track)*, Valencia, Spain, Sept. 2025.

Invited Research Talk
Stepping into Research: My Journey to RE@Next! — Ball State Computer Science TechTalk, Nov 2025. Presented undergraduate research trajectory culminating in published RE@Next! 2025 paper.

WORK EXPERIENCE

Co-Founder & Software Engineer — Aug 2024 – Present
Placenet — *Indianapolis, IN*

- Built two full MVPs (mobile→web) for a property-management platform; led 5-person engineering team through delivery.
- Migrated Postgres/Express/S3 stack to Firebase, reducing maintenance cost and enabling rapid development cycles.
- Implemented authentication, CRUD workflows, and property/contractor pipelines; contributed 15+ production features.

- Represented team at Global Entrepreneurship Congress and TechChicago Capital Summit, generating 10+ leads and 7 follow-on discussions.

UX/UI Researcher & Junior PM   Aug 2023 – May 2025
Ball State Digital Corps   *Muncie, IN*

- Led and executed 10+ UX/UI projects for university-wide clients, delivering research-backed, human-centered design solutions.
- Conducted interviews, usability testing, wireframing, and system flow design to enhance accessibility and usability.
- Collaborated with cross-functional teams to integrate UX decisions with technical constraints and project requirements.

HONORS & AWARDS

NSF Research Experience for Undergraduates (REU) — Scalable Machine Learning Systems (May 2024)
Department Honors in Computer Science — Ball State University (May 2025)
Dean's List — Fall 2022, Spring 2023, Fall 2023, Summer 2024, Fall 2024, Spring 2025

MENTORSHIP & VOLUNTEERING

Starfish Initiative — Mentoring high school students pursuing STEM fields (Sept 2025–Present)
Paramount School of Excellence Girls In STEM Academy — Mentoring young girls interested in STEM (Nov 2025–Present)
Wheeler Mission — Meal Service Volunteer (Sept 2025–Present)
P33 Chicago — TechChicago Summit Stage Manager (Jul 2025)

TECHNICAL SKILLS

Languages	Python, Java, JavaScript
AI/ML	OpenAI API, LangChain, ChromaDB, TensorFlow, PyTorch, Scikit-learn, Spark, Pandas, NumPy
Development	React Native, Expo, Docker, Axios, PostgreSQL, MySQL, Firebase, GitHub, AWS S3

CERTIFICATIONS

DataCamp: ML, AI, Responsible AI, LLMs, XAI, AI Security
CITI Program: RCR, Biosafety, DNA Guidelines
Indiana University: HIPAA Privacy & Security, Compliance Training